CSCI 1302

Fall, 2013

Required Java Guidelines:

* All programs must have the following documentation header, in any format you see appropriate:

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

//

// Your name

// Lab number and name (example: Lab 3: Computing Distance)

//

//Program Name

// Program Description

//

//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The following guidelines are from:

Lewis, J. and Loftus W. (2012). *Java Software Solutions,* Appendix F: Java Coding Guidelines.

* Style Guidelines
  1. Identifier Naming
     + Use the underscore character to separate words of a constant.
     + Give identifiers semantic meaning.
     + Make identifiers easy to read.
  2. Identifier Case
     + User Uppercase for constants.
     + Use Title Case for class.
     + Use lowercase for variable and method names except for the first letter of each word other than the first word.
  3. Indentation
     + Indent the code in any block by 3-4 spaces (consistently).
     + If the body of a loop, *if* statement, or *else* statement is a single statement (not a block), indent the statement three spaces on its own line.
     + Put the left brae ({) starting each new block on a new line. Line up the terminating right brace (}) with the opening left brace.
     + In a *switch* statement, indent each *case* label three spaces. Indent all code associated with a *case* statement three additional spaces.
  4. Spacing
     + Put one space
       - after each comma in a parameter list.
       - on either side of a binary operator.
       - before a left parenthesis, except before an empty parameter list.
     + Do not put spaces
       - Immediately after a left parenthesis or before a right parenthesis.
       - Before a semicolon.
     + When declaring arrays, associate the brackets with the element type so that it applies to all variables on that line.
* Documentation
  1. Write all documentation as thought the reader is computer literate and basically familiar with the Java language.
  2. Assume the reader know almost nothing about what the program is supposed to do.
  3. Comments should be concise, thorough, and accurate.
  4. Header blocks
     + Every source code file should contain a header block of basic information.
     + Each class and interface, and each method in a class should have a small header block that describes its role.
     + Each header block of documentation should have a distinct delimiter on the top and bottom.
  5. In-Line Comments
     + Use as appropriate.
     + Put comment on same line as code on if the comment applies only to that line of code and can fit conveniently on that line. Otherwise, put it on a separate line before the code to which it applies.